

Safety in track area

1 Electrical safety

1.1 Damaged or fallen cables

Damaged or fallen cables and other objects in their vicinity shall always be regarded as being live, and thus dangerous. Do not approach a fallen cable or a derailed vehicle with an extended pantograph. The pantograph shall, if possible, be retracted. If this is not possible, the electrical operations manager shall be immediately contacted for voltage disconnection.

Ring immediately emergency no. 112 or the Swedish Transport Administration's traffic centre. Warn other individuals and wait, depending on the circumstances, until an electrical works supervisor or a responsible officer from the rescue services arrives on the scene and takes over responsibility.

1.2 Ladders and other long items

Items made of conductive material may not be handled in such a way that there is a risk of them entering the immediate area.

A moveable ladder that is longer than 2 m and which is handled within 4 m of a high-voltage facility shall be made of non-conductive material and be provided with a warning sign for electrical danger. The warning sign shall be designed in accordance with the requirements of ELSÄK-FS 2008:2, *General warning for electrical danger* and be placed approximately 2 m from the base of the ladder.

1.3 Switch-heat facilities

In the event of a fault in a switch-heat element, the rails may receive dangerous voltage. In order to eliminate the risk of damage owing to a fault, switch-heat facility shall always be disconnected when working in switches.

For work in which there is no direct contact with the rails (for example snow clearance with a broom, the cleaning of switch rod pits), switch-heat facilities do not need to be disconnected

For work on switch-heat facilities, the regulations of ESA (Electrical Safety Instructions) shall be followed until Februari 10 2016, then the rules in SS-EN 50 1010- edition 3 *Maintenance of electrical installations* shall be followed.

In risk assessments, it shall be stated whether or not switch-heat facilities need to be disconnected.

1.4 Access to operation rooms

In order to be given access to operation rooms without personal supervision, the personnel concerned need to be sufficiently well instructed to avoid the dangers that electricity can lead to. Personnel who are not sufficiently well instructed may

only access operation rooms under the supervision of a technically competent person. Other regulations for operation rooms are stipulated in ELSÄK-FS 2008:2.

2 Safety zone

The safety zone extends at least 2.20 m out from the nearest rail. Nobody is allowed to be within the safety zone 10 seconds before a rail vehicle passes.

Stockpiles or similar are not allowed to extend into the safety zone or closer than 4 m to a live infrastructure component.

3 Safety clothing

People who access the track area shall wear safety clothing on the upper parts of their bodies that meets the requirements of Standard EN 471, Class 3. Logotypes or other colours that are not fluorescent may not have an influence on the area specified by the Standard.